



NUTRIENT MANAGEMENT REQUIREMENTS FOR EQIP CONTRACTS

Implement items 1 thru 22 below. Implementation can be phased in for multi-year contracts. Submit required information **and certify** completion of all planned nutrient management operations to receive payment.

1st year of scheduled nutrient management for multi-year contracts

1. Develop a 1st year plan using NRCS job sheet 590b(attached) **prior to** any planned fall fertilizer or fall or winter manure applications. Develop 1st year plan by **Mar. 1** for spring or summer applications.
2. Develop realistic yield goals (take the latest five year's yields; drop the lowest yielding year and average the remaining four years' yield records).
3. Sample soils for at a minimum pH, Organic matter (O.M.), Phosphorus (P), and potassium (K) and have analyzed at a soil testing lab certified by the Mn. Dept. of Agriculture (MDA). Existing soil tests no older than 3-4 years addressing these parameters are acceptable if from certified labs. However nitrate tests are gathered annually normally after crop harvest.
4. Collect manure samples **each time a storage structure is emptied for application** and have analyzed for Total N, P₂O₅ and K₂O using procedures and laboratories recommended by the MDA.
5. Apply manure uniformly and calibrate manure application equipment **at time of application**. Determine and record rates applied to fields.
6. Do not apply manure on in-field grassed waterways (unless a variance is granted).
7. Follow all state law requirements regarding manure and manure applications near sensitive features. These requirements include:
 - a. Determining manure application rates based on crop nitrogen nutrient budgeting on most fields.
 - b. Determining manure application rates based on crop P₂O₅ removal on fields within 300 feet of lakes and streams and without filter strips if those fields have soil test phosphorus values greater than 21 ppm Bray 1 (16 PPM Olsen). A single year rate can be based on crop nitrogen needs provided subsequent applications do not occur until excess P has been removed by succeeding crops
 - c. No application in road ditches and within 25 feet of lakes, perennial and intermittent streams and public water wetlands. No application within 300 feet when ground is frozen, snow-covered or actively thawing. Applications at other times must be injected or incorporated within 24 hours if a field edge filter strip is not present (100 foot width for lakes and streams, minimum 50 foot width for intermittent streams, drainage ditches and wetlands). No traveling gun or center pivot manure applications within 300 feet.
 - d. No application within 50 feet of water supply wells, mines, quarries, sinkholes receiving surface runoff, or other direct conduits to groundwater. Inject or incorporate manure ion within 24 hours upslope from and within 300 feet of these features.
8. Keep field specific records of crops, yields, and commercial fertilizer and manure applications (including rates, timing, nutrient content and method of application and incorporation).
9. Prior to **Aug. 1** gather and submit additional information required to develop a detailed nutrient management plan. This information is shown on NRCS forms MN-CPA 40, 41 42 and 43.
10. Prior to **Aug. 1** certify on NRCS job sheet 590b that scheduled activities have been completed

Remaining years of nutrient management

Follow the above provisions 2 thru 5 as appropriate and 6-8.

11. Prior to **Aug.1** submit a completed NRCS form MN-CPA-41 if NRCS is helping with plan development and fall applications are being considered. Submit this information by **Dec. 1** if only spring applications are planned and NRCS is helping with plan development.



12. Determine crop N, P₂O₅ and K₂O nutrient needs using nutrient budgeting principles (accounts for all sources of nutrients available to crops) and University of Minnesota (UofM) Fertilizer recommendations as found in the most recent version of **BU-6240-GO Fertilizer Recommendations for Agronomic Crops in Minnesota** (or analogous crop specific bulletins).
13. Control sheet, rill, ephemeral gully and wind soil losses to 6 tons per acre per year or less on land receiving manure or commercial fertilizer applications.
14. Do not apply manure on soils classified by NRCS as "frequently" flooded (floods 50-100 times in 100 years) during usual peak flood periods. Inject or incorporate within 2 days when applying at other times.
15. Do not fall apply commercial N fertilizer on soils in the textural classes of loamy sand and sand. Sidedress or split applications of commercial nitrogen fertilizer are preferred on these soils.
16. Do not fall apply commercial N fertilizer on sensitive sites in southeastern Minnesota.
17. Use sidedress or split applications of commercial N on irrigated crops.
18. Maintain a minimum separation of 15 inches between bottom of incorporated or injected manure and fractured bedrock or high water table.
19. Delay fall manure applications on coarse textured soils until after Nov. 1. Delay spring manure and commercial N and P applications on any field until active thawing and runoff events have passed.
20. Inject or incorporate manure within 24 hours upslope from and within 300 feet of surface tile intakes.
21. Do not apply solid or liquid manure on frozen or snow-covered ground on fields with sheet and rill soil losses greater than 4 tons/ac./yr. or 2 tons/ac./year respectively.
22. Prior to **Aug. 1** certify that planned activities have been completed. NRCS form MN-CPA-046 can be used for certification.

March 2003

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1st Yr. NUTRIENT MANAGEMENT PLAN

For

Producer _____ Plan Date _____

Date	Scheduled Date	Assisted by	Completed
1. Calculate realistic yield goals by:	_____	_____	_____
2. Complete field soil sampling and analysis by:	_____	_____	_____
3. Complete manure sampling and analysis of Total N, P ₂ O ₅ and K ₂ O by:	_____	_____	_____
4. Calibrate applicators by:	_____	_____	_____
5. Apply manure uniformly and do not apply with 25 feet of surface waters.			
6. Do not apply manure on in-field grassed waterways (unless a variance is granted).			
7. Do not apply manure within 50 feet of water supply wells, mines, quarries, sinkholes receiving surface runoff, or other direct conduits to groundwater. Inject or incorporate manure applications within 24 hours on land upslope from and within 300 feet of these features			
8. For land within 300 feet of surface waters			
• Do not apply manure with a traveling gun or center pivot irrigation system at any time and do not apply manure when ground is frozen, snow covered or actively thawing.			
• Inject or incorporate manure within 24 hours or install a 100 foot wide grass filter strip along surface waters and a 50 foot strip along intermittent streams and drainage ditches.			
9. Begin keeping field specific records by:	_____	_____	_____
10. Complete farm inventory and submit information on NRCS forms MN-CPA 40, 41, 42 and 43 by Aug. 1.			

Producer Signature (indicates plan has been followed)

Date

March 2003

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